

24. (Amended) A method for manufacturing paper having a variable characteristic in a crossmachine direction comprising the steps of:

feeding a slurry to a distributor;

delivering said slurry from said distributor to a headbox through a plurality of delivery lines, said delivery lines being coupled to said headbox at a plurality of locations spaced across said headbox in a crossmachine direction;

selectively introducing a property altering agent in at least two of said delivery lines at said distributor to selectively alter the properties of the slurry passing through said at least two delivery lines; and

depositing said slurry received by said headbox on a papermaking wire to form paper.

32. (Amended) A security paper having colored stripes formed by the steps of:

feeding a slurry to a distributor;

delivering said slurry from said distributor to a headbox through a plurality of delivery lines, each delivery line being coupled to said distributor at a coupling location, said delivery lines being coupled to said headbox at a plurality of locations spaced across said headbox in a crossmachine direction;

selectively introducing a coloring agent in at least two of said delivery lines at the associated coupling location to selectively color the slurry passing through said at least two delivery lines; and

depositing said slurry received by said headbox on a papermaking wire to form striped paper.

Add the following new claims:

36. The method of claim 24 wherein said property altering agent is dissolved or suspended in a fluid to form a property altering agent solution before said introducing step, and wherein said property altering agent solution is introduced in said at least two delivery lines to selectively introduce said property altering agent in said at least two delivery lines.

37. The method of claim 24 wherein the slurry in said at least two delivery lines is diluted by dilution water, and wherein said dilution water selectively introduces said property altering agent in said at least two delivery lines.

38. The method of claim 24 wherein a plurality of dilution water lines are coupled to said plurality of delivery lines, said dilution water lines delivering dilution water to said plurality of delivery lines, and wherein said dilution water lines selectively introduce said property altering agent in said at least two delivery lines.

39. The method of claim 38 wherein each delivery line receives dilution water from an associated, dedicated dilution water line.

40. The method of claim 38 wherein each dilution water line delivers said dilution water from a water header to said delivery lines.

41. The method of claim 38 wherein said property altering agent is dissolved or suspended in a fluid to form a property altering agent solution, and wherein said property altering agent solution is introduced into selected ones of said plurality of dilution water lines to selectively introduce said property altering agent in said at least two delivery lines.

42. The method of claim 41 wherein said property altering agent solution is pumped into said selected dilution water lines to thereby introduce said property altering agent into said selected dilution water lines.

43. The method of claim 41 wherein said selected dilution water lines each include a 3-way fitting to enable said property altering agent to be introduced therein.

44. The method of claim 36 wherein said property altering solution is added to said at least two delivery lines at a rate of between about 0.5 and about 4 gallons per hour.

45. The method of claim 36 wherein said property altering agent constitutes about 0.5 percent to about 50.0 percent concentration by volume of said property altering agent solution.

46. The method of claim 24 wherein the slurry delivered by each delivery line contributes to a portion of the width of the deposited slurry in the crossmachine direction.

47. The method of claim 24 wherein said slurry is comprised of cellulose fibers suspended in a water base.

48. The method of claim 24 wherein said property altering agent is a dye.

49. The method of claim 24 wherein said property altering agent is a pigment.

50. The method of claim 24 further comprising the step of suspending said property altering agent in a liquid base before said property altering agent is introduced into said at least two delivery lines.

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51. The method of claim 24 further comprising the step of moving said wire to convey said deposited slurry away from said headbox.

52. The method of claim 51 wherein said paper has variable a characteristic in a direction perpendicular to the movement of said wire.

53. The method of claim 24 further comprising the step of selectively introducing an auxiliary property altering agent into another one of said plurality of delivery lines before said depositing step.

54. The method of claim 53 wherein the pulp including said auxiliary property altering agent has at least one property different from the pulp including said property altering agent.

55. The method of claim 24 further comprising the step of controlling the consistency of the slurry deposited on said wire to control the diffusion of the slurry deposited on said wire.

56. The method of claim 51 further comprising the step of controlling the speed of said wire to control the diffusion of the slurry deposited on said wire.

57. The method of claim 24 wherein said plurality of locations are generally evenly spaced across said headbox.

58. A method for manufacturing paper having a variable characteristic in a cross machine direction comprising the steps of:

feeding a slurry to a distributor;

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delivering said slurry from said distributor to a headbox through a plurality of delivery lines, said delivery lines being coupled to said headbox at a plurality of locations spaced across said headbox in a crossmachine direction;

selectively introducing a first property altering agent in said distributor and into a first of said delivery lines to selectively alter the properties of the slurry passing through said first delivery line;

selectively introducing a second property altering agent in said distributor and into a second of said delivery lines to selectively alter the properties of the slurry passing through said second delivery line; and

depositing said slurry received by said headbox on a papermaking wire to form paper having a variable characteristic in a cross machine direction.

59. A method for manufacturing paper having a variable characteristic in a crossmachine direction comprising the steps of:

feeding a slurry to a distributor;

delivering said slurry from said distributor to a headbox through a plurality of delivery lines, said delivery lines being coupled to said headbox at a plurality of locations spaced across said headbox in a crossmachine direction;

providing a plurality of dilution water lines, each dilution water line being coupled to said distributor and in fluid communication with an associated delivery line;

selectively introducing a property altering agent in at least one of said dilution water lines to alter the properties of the slurry in at least two of said delivery lines; and

depositing said slurry received by said headbox on a papermaking wire to form paper having a variable characteristic in the cross machine direction.

Remarks